Unit 10 - Summary

$A_{Square} = s^2 \text{ or } b \bullet h$

$A_{Parallelogram} = b \bullet h$

$A_{Rectangle} = b \bullet h$

s = side
b = base
h = height

$A_{Triangle} = \frac{1}{2} \bullet b \bullet h$

$A_{Equilateral\ Triangle} = \frac{s^2\sqrt{3}}{4}$

$A_{Rhombus} = \frac{1}{2} \bullet d_1 \bullet d_2 \text{ or } b \bullet h$

d_1 & d_2 = diagonals

$A_{Trapezoid} = \frac{1}{2} \bullet h \bullet (b_1 + b_2)$

b_1 & b_2 = bases

$A_{Kite} = \frac{1}{2} \bullet d_1 \bullet d_2$

a = apothem
P = perimeter

$A_{Reg\ Hexagon} = 6 \bullet \frac{s^2\sqrt{3}}{4}$

$A_{Regular\ Polygon} = \frac{1}{2}aP, \quad or \quad = \frac{1}{2}a \bullet ns$

n = # of sides
s = side

$A_{Circle} = \pi r^2$

r = radius
d = diameter

$P(Shaded\ \ Area) = \frac{Shaded\ \ Area}{Total\ \ Area}$

$Circumference = 2\pi r \ \ or \ \ \pi d$
